

Solarwinds Report Guidance Document

This document is designed to provide guidance when reading the Solarwinds report pertaining to the broadband utilization of individual school districts. This report is for the average amount of bandwidth used by a district in a **30 consecutive day** window of time (including weekends) from **7:00 AM to 4:00 PM**.

Kbps stands for "kilobits per second,"

Mbps stands for "megabits per second."

One megabit is equal to 1024 kilobits.

For the purposes of this report we are going to use 1,000 kilobits instead of 1,024 so converting units of measure is easier.

$$1000 \text{ kilobits} = 1 \text{ megabit} = 0.001 \text{ gigabit}$$

Nortel Ethernet Routing Switch = this is the piece of networking equipment in which all traffic flows to the WNYRIC Data Center and the internet

Traffic coming
into the district

Traffic going out
of the district



Average Traffic Rates - Last 30 Days WNYRIC School Day

Date	Average Receive bps	Average Transmit bps
5520		
Nortel Ethernet Routing Switch 5520-24T-PWR Module - Port 24 - ifc24 (Slot: 1 Port: 24)		
02-Feb-15	883 Kbps	391 Kbps
03-Feb-15	82 Mbps	7.87 Mbps
04-Feb-15	92 Mbps	8.76 Mbps
05-Feb-15	115 Mbps	8.47 Mbps
06-Feb-15	117 Mbps	8.56 Mbps
07-Feb-15	752 Kbps	482 Kbps
08-Feb-15	617 Kbps	269 Kbps
09-Feb-15	95 Mbps	7.75 Mbps
10-Feb-15	107 Mbps	8.84 Mbps
11-Feb-15	109 Mbps	10 Mbps
12-Feb-15	77 Mbps	6.09 Mbps
13-Feb-15	839 Kbps	313 Kbps

To quickly calculate the Kbps to Mbps so the data have the same unit of measure, move the decimal point of the Kbps three (3) positions to the left.

$$\begin{array}{rcl}
 \begin{array}{c} 8 \quad 8 \quad 3 \quad . \quad 0 \\ \text{Kbps} \end{array} & = & \begin{array}{c} 0 \quad . \quad 8 \quad 8 \quad 3 \\ \text{Mbps} \end{array} \\
 \begin{array}{c} 0 \quad 0 \quad 0 \quad . \quad 8 \quad 8 \quad 3 \\ \text{Mbps} \end{array} & = & \begin{array}{c} .0 \quad 0 \quad 0 \quad 8 \quad 8 \quad 3 \\ \text{Gbps} \end{array}
 \end{array}$$